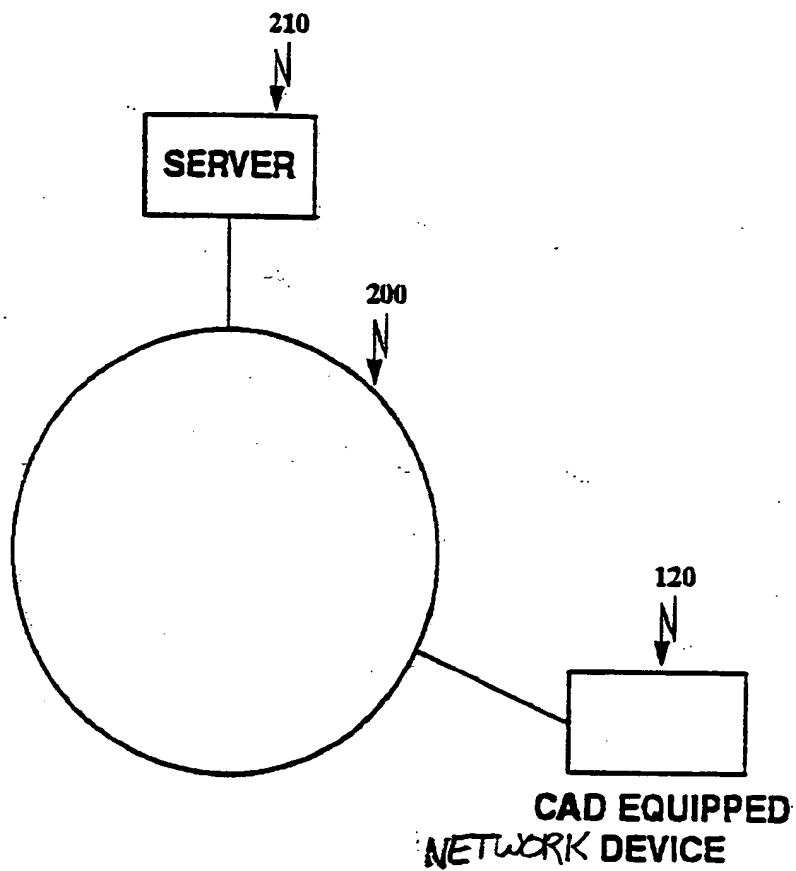
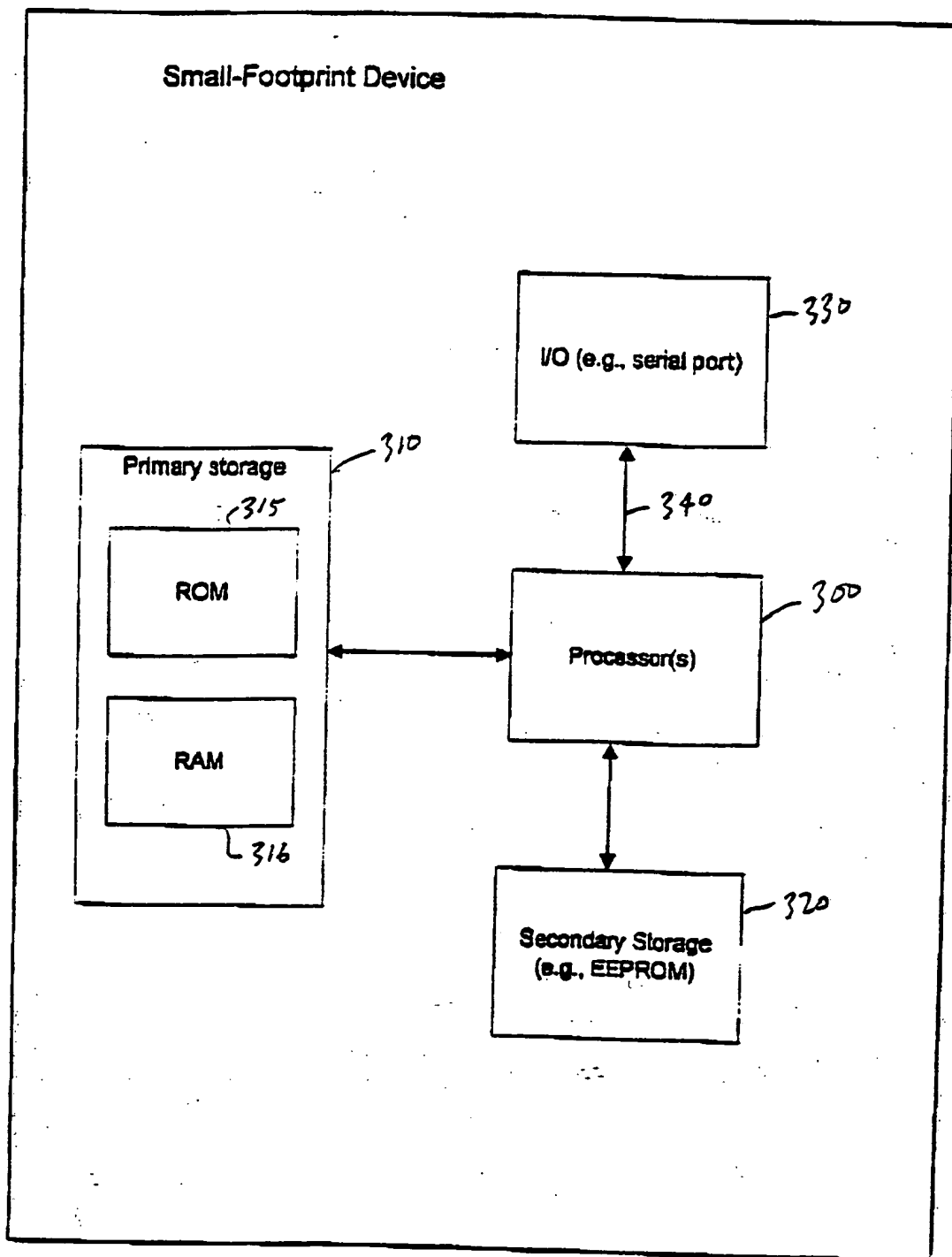


**Figure 1**

66243-3973660



**Figure 2**



**Figure 3 (PRIOR ART)**

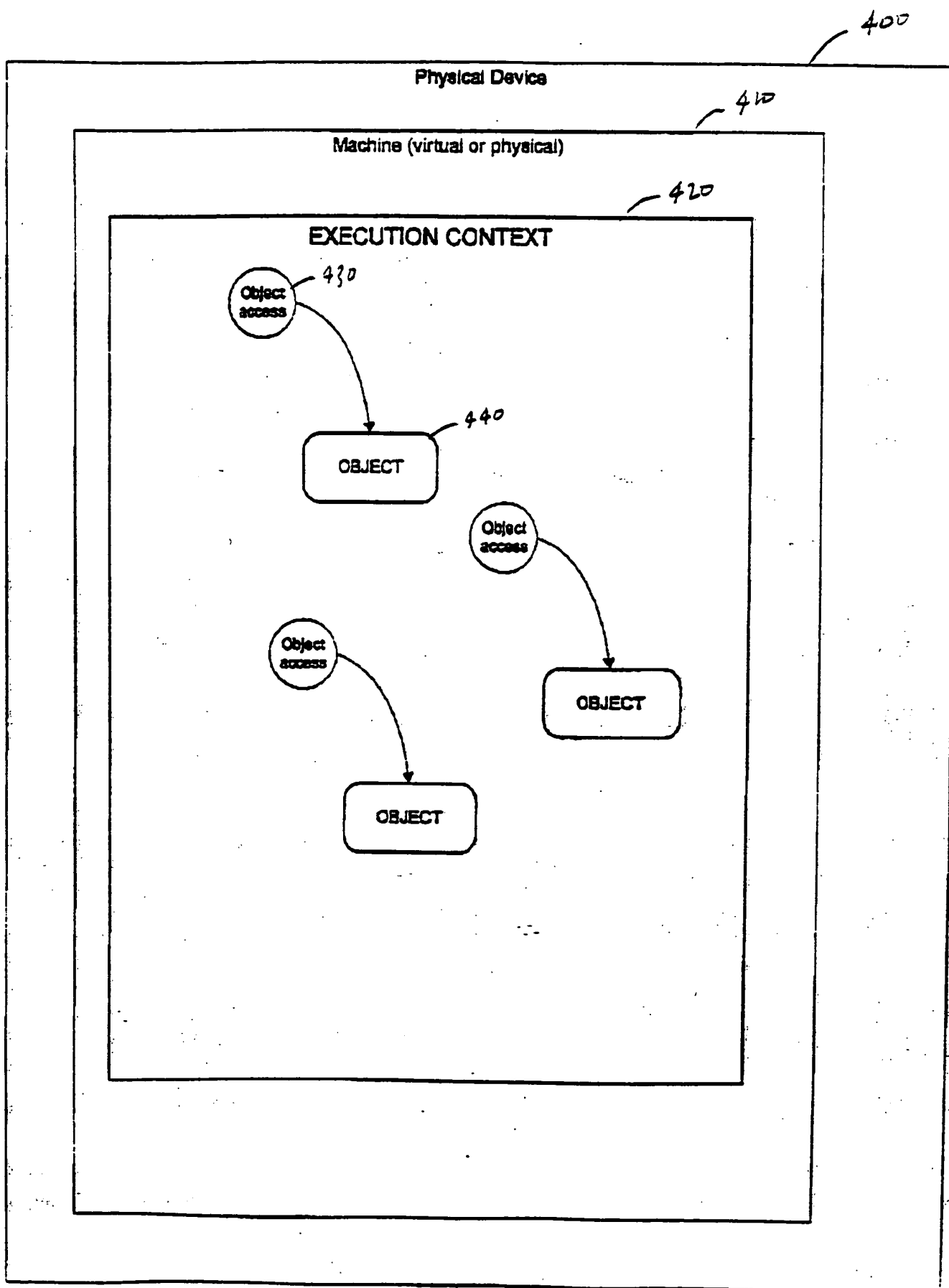
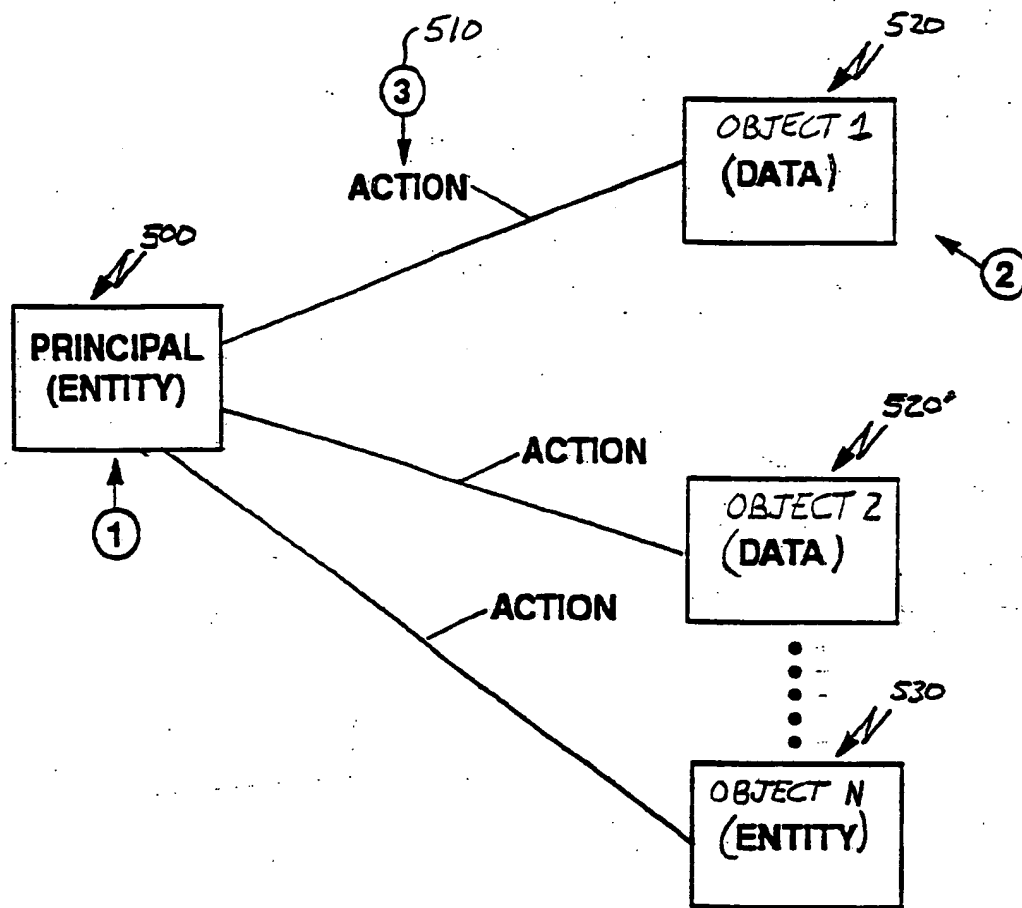


Figure 4 (PRIOR ART)



**Figure 5**

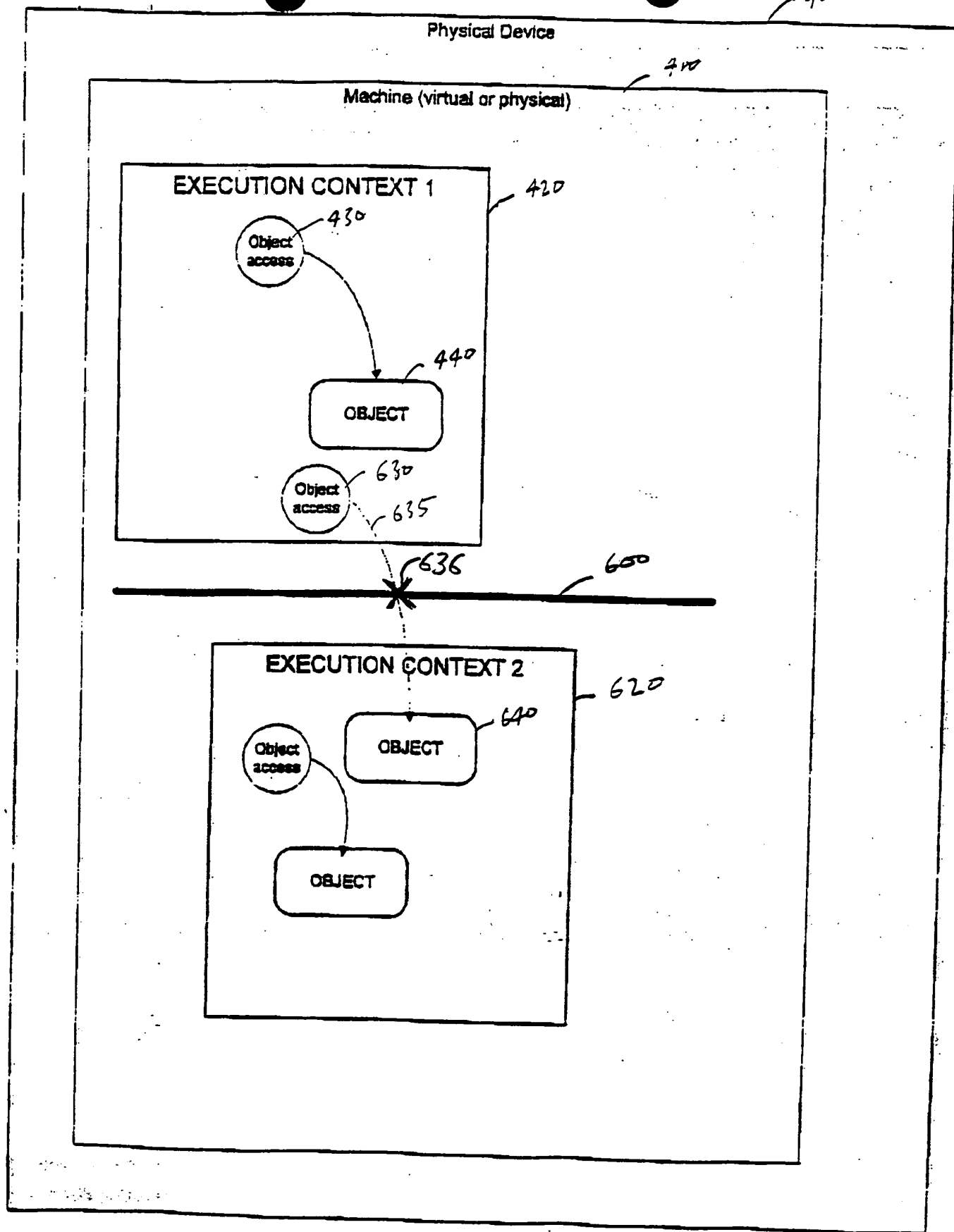
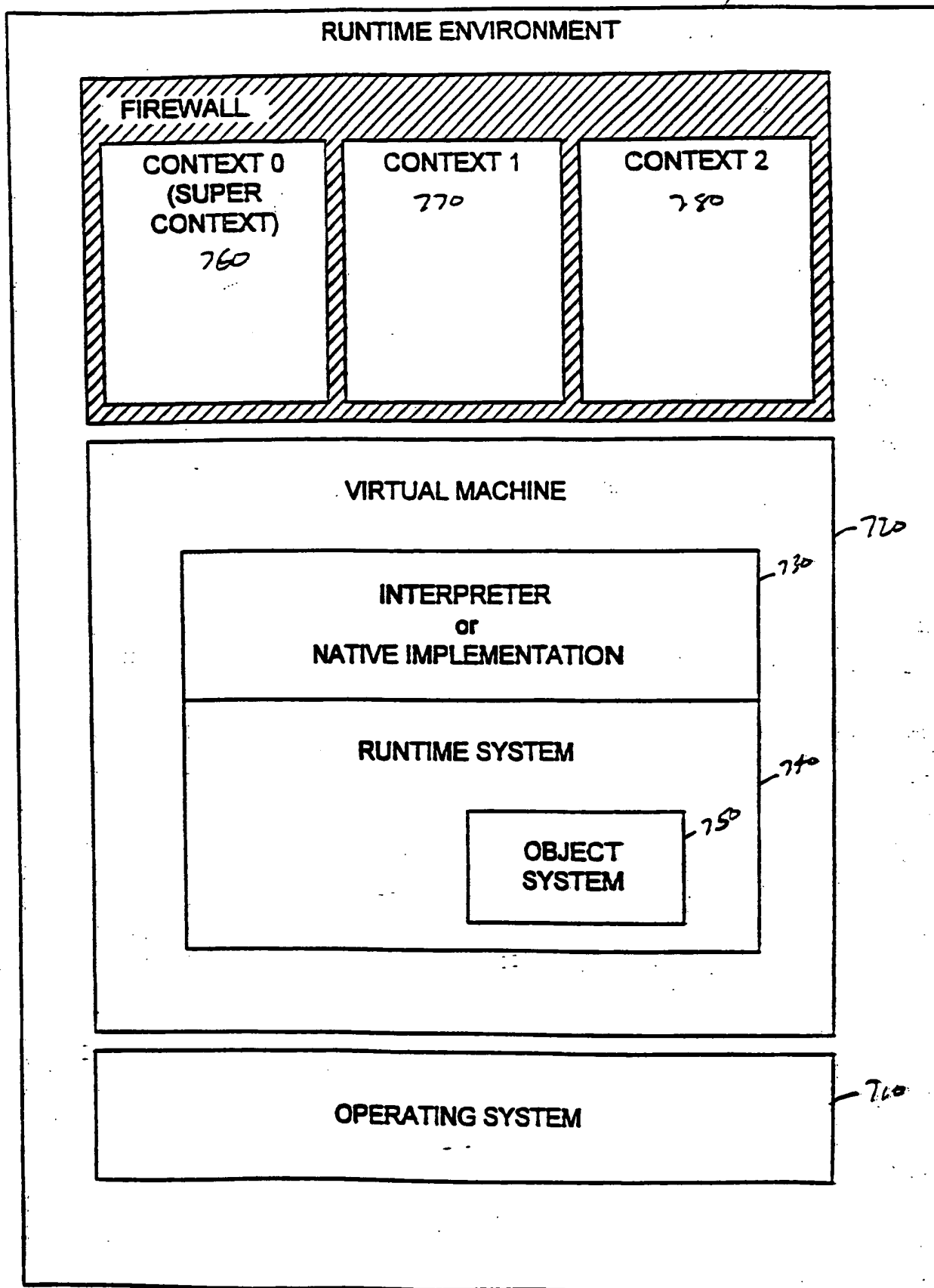


Figure 6



## Figure 7

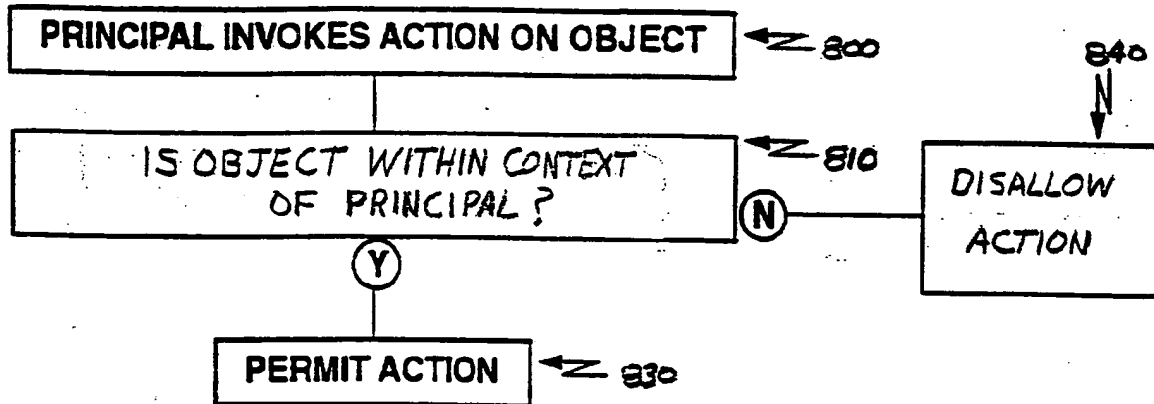


Figure 8



Physical Device

450

Machine (virtual or physical)

410

EXECUTION CONTEXT 1

420

Object access 430

Object access 900

435

OBJECT 440

Object access 630

635

EXECUTION CONTEXT 2

620

OBJECT 640

OBJECT 910

920

636

650

Figure 9

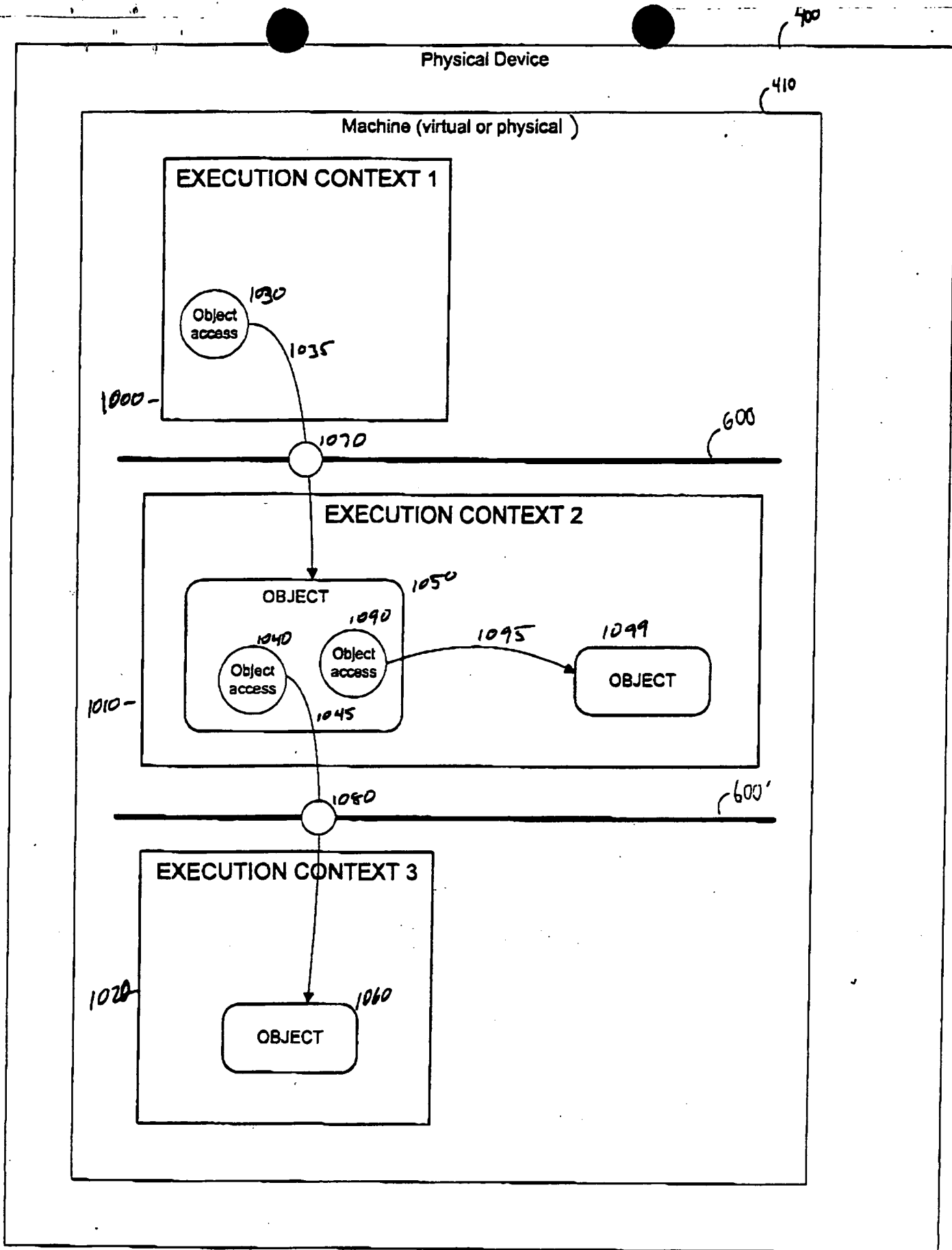


Figure 10

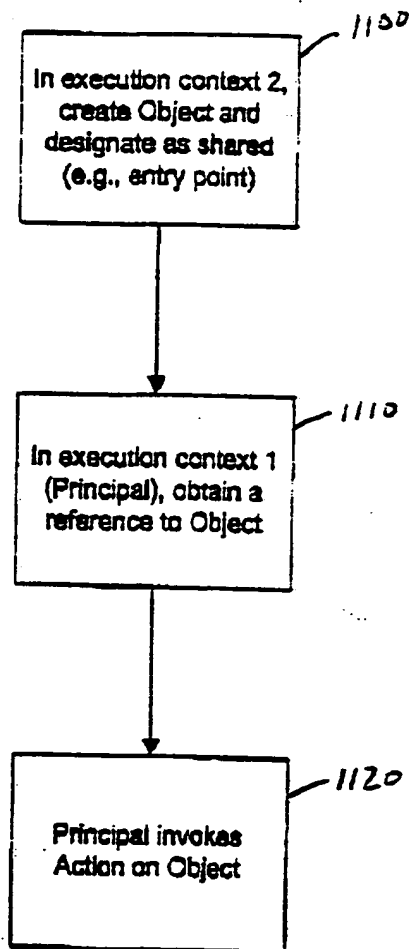


Figure 11

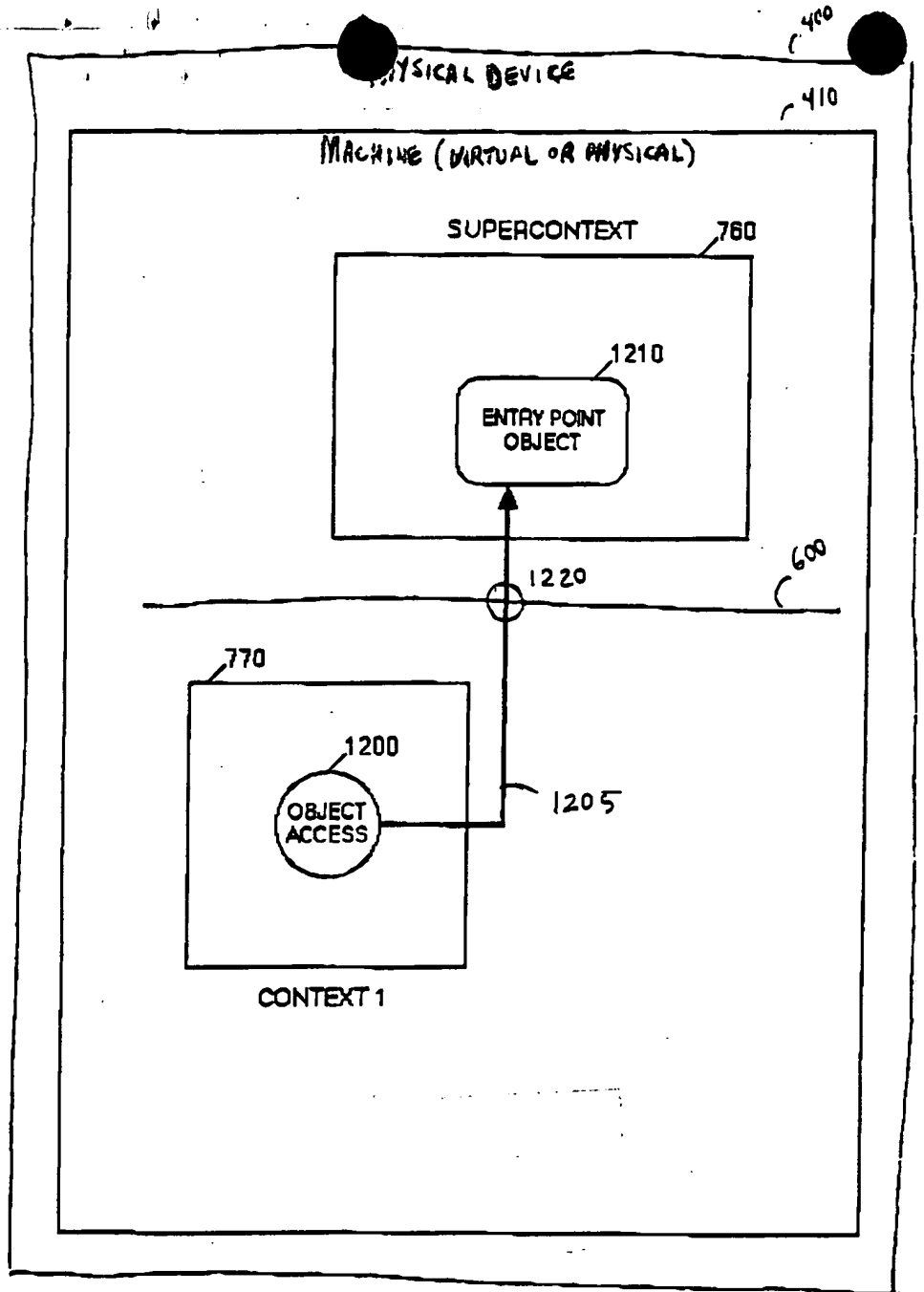


FIGURE 12

400  
410

PHYSICAL DEVICE

MACHINE (VIRTUAL OR PHYSICAL)

SUPERCONTEXT 760

GLOBAL DATA  
STRUCTURE

1200  
~~1210~~

~~1220~~  
1220

~~1230~~  
1270

600

770

1205

1255

780

1210  
~~1200~~

1250  
~~1220~~

OBJECT  
ACCESS

OBJECT  
ACCESS

CONTEXT 1

CONTEXT 2

FIGURE 13

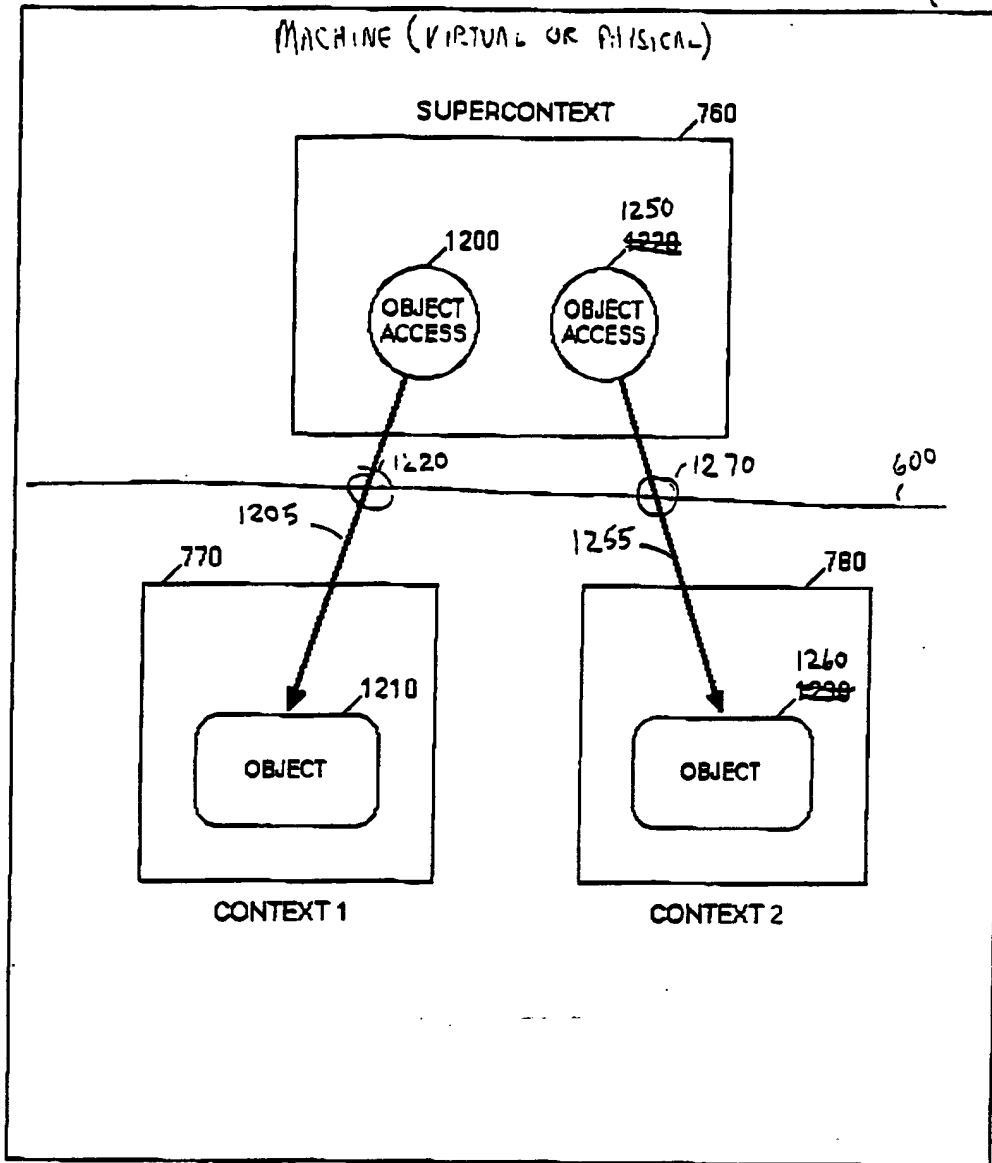


FIGURE 14

PHYSICAL DEVICE

410

MACHINE (VIRTUAL OR PHYSICAL)

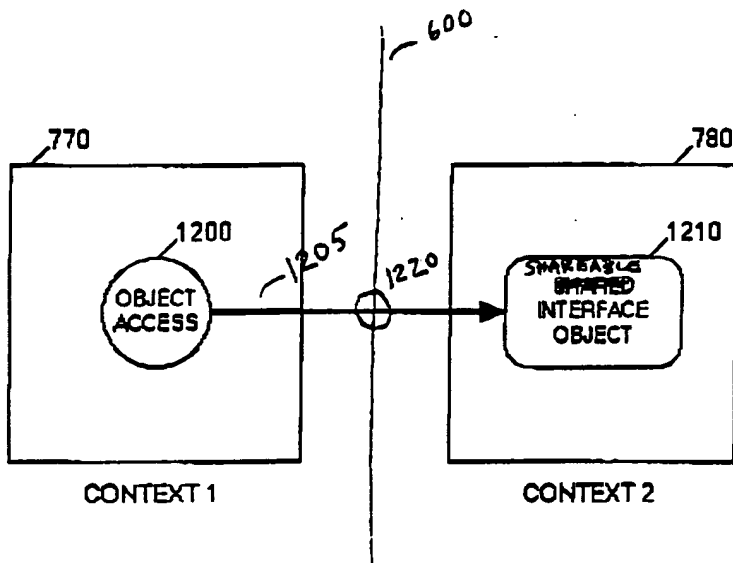


FIGURE 15

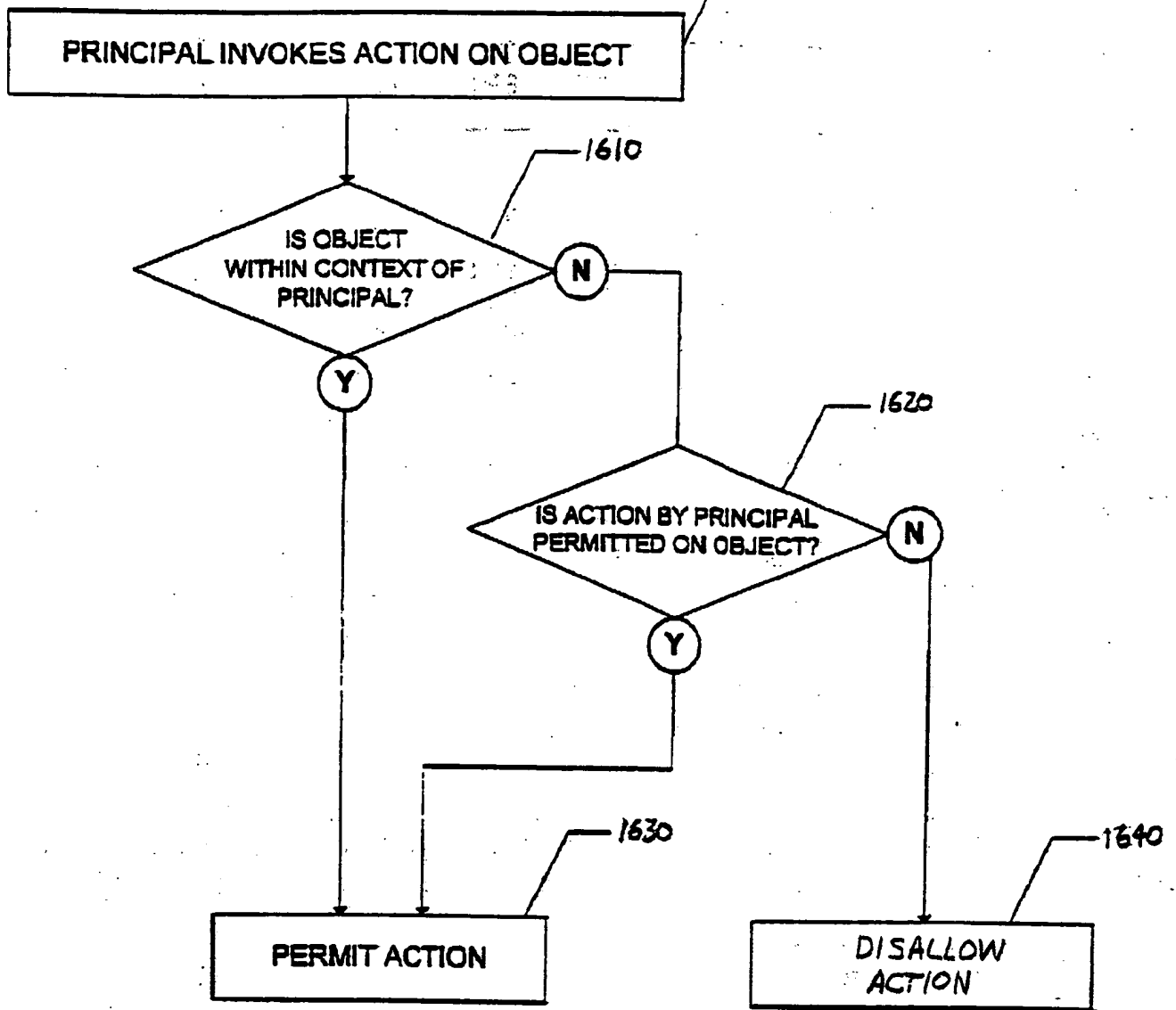


Figure 16



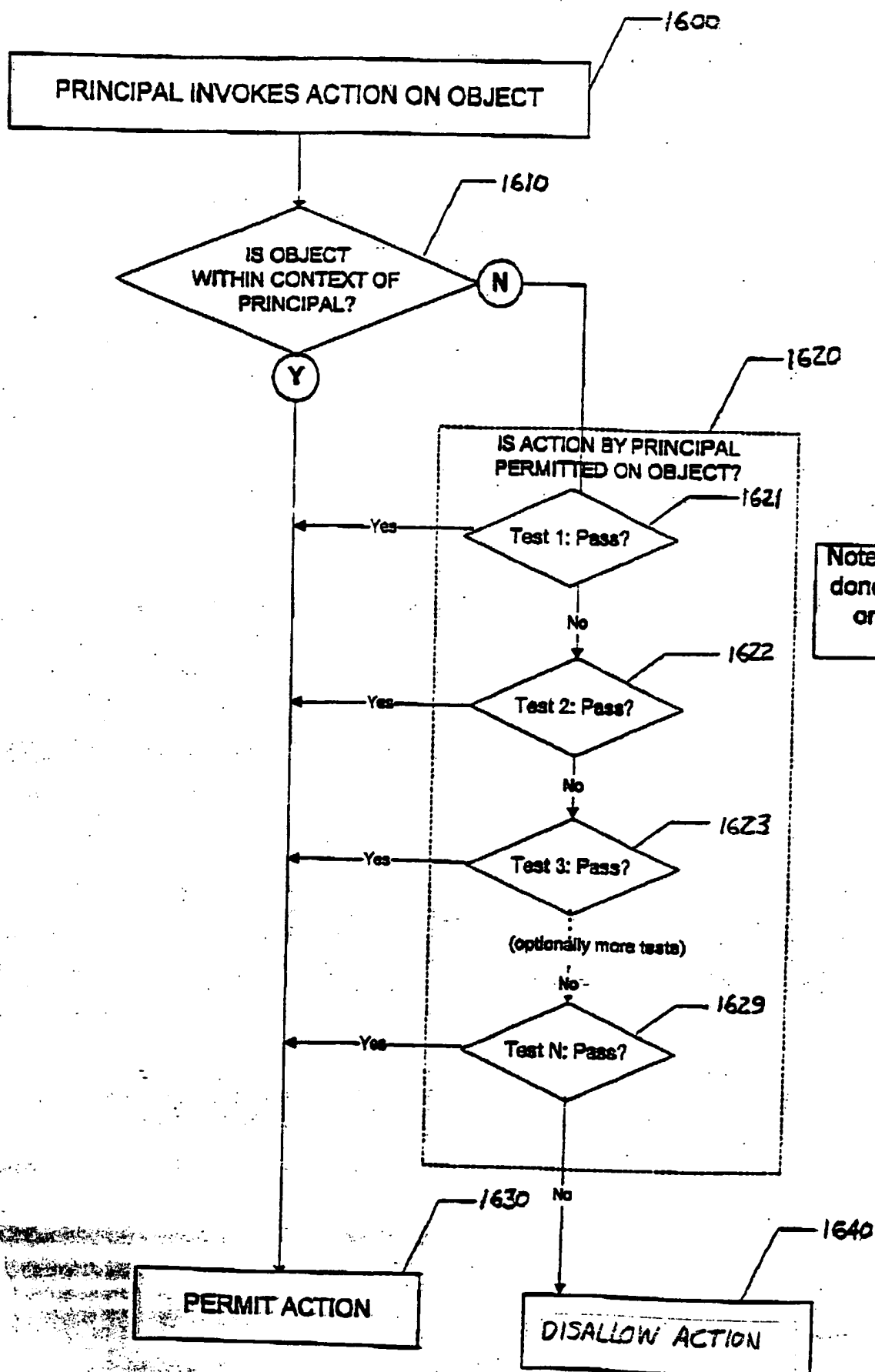


Figure 17

1629

1800  
call test

Tests 1-N for P invokes  
A on O

1810

VM checks if O is a  
shared object

No

Yes

VM invokes method A  
of object O

1820

1830

method A of object O  
checks if P is authorized

No

Yes

1850  
FAIL

1840  
PASS

Figure 18